

AMENDMENTS TO THE SPECIFICATION

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Please replace the paragraph beginning on page 1, line 13, with the following amended paragraph:

As chlorofluorocarbon (CFC), a refrigerant used for a refrigerator, an air-conditioner or the like, has been known as a source material damaging an ozone layer of the stratosphere, ~~researches~~research on a substitute refrigerant is being actively conducted.

Please replace the paragraph beginning on page 2, line 14, with the following amended paragraph:

Especially, isobutane (R600a) is an environmental-friendly natural gas which does not damage the ozone layer and ~~have~~has no influence on a greenhouse effect. That is, isobutane (R600a), a sort of a natural gas obtained by refining hydrocarbon gas created in an oil refining process to a high degree of purity, is a refrigerant containing no environmentally detrimental factor.

Please replace the paragraph beginning on page 3, line 21, with the following amended paragraph:

Namely, the lubricant used as the refrigerant oil of the reciprocating compressor needs to have characteristics that it can protect well an oil film even though the refrigerant is dissolved, ~~and~~ should be thermally and chemically stable so as not to react in spite of being in contact with the refrigerant and an organic material metal at a high temperature or at a low temperature, and should have a high level thermal stability so as not to generate a carbon sludge or not to be oxidized at a high temperature part of the compressor.